



Machine Gun System

Mk 38 Mod 3

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The Mk 38 Mod 3 Machine Gun System (MGS) from BAE Systems: Setting the standard for shipboard defense against small, fast, and agile surface threats. Now equipped with both the 25mm M242 Bushmaster main gun and option for a coaxially-mounted 7.62mm Mk 52 Mod 0 automatic chain gun to cover all mission needs, the stabilized, remotely controlled Mk 38 MGS further enhance the proven capability in defending against multiple surface threats.



The Mk 38 Mod 3 MGS incorporates the service-proven TOPLITE electro-optical sensor integrated with a state-of-the-art fire control system to optimize effective engagement of enemy targets in all weather conditions, day or night.

**Weaponry** – The main weapon is the proven 25mm M242 Bushmaster cannon with 2.5-km range and selectable rates of fire. The co-axially mounted 7.62mm chain gun upgrade provides the capability to accurately engage threats while in port and/or close to port.

**Lethality** – The Mk 38 MGS fires all U.S. NATO Standard 25-mm by 137mm ammunition with adjustable rates of fire up to 180 rounds per minute and 168 ready rounds on-mount. The Mk 38 MGS can also fire the co-axially mounted 7.62mm gun with adjustable burst times with a rate of fire of 570 rpm with up to 750 ready rounds on-mount.

**Command and Control** – The integrated fire control system provides independent gun and TOPLITE gimbal stabilization and superior optics including the forward looking infrared radar with three fields-of-view, a low

contrast, low light level color day camera, and an eye-safe laser range finder.

**Survivability** – The Mk 38 MGS provides for crew-safe conditions with a remote operation console located in the Combat Information Center, on the bridge, or other protected ship areas.

**Adaptability** – The Mk 38 MGS is the U.S. Navy's ORDALT choice to upgrade the Mk 38 Mod 0/1 25-mm machine gun. The system can be applied to a wide range of different ship classes and platform designs of 50 tons or greater displacement.

#### Specifications

|                                                                                                                                         |                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Weight (with gun, w/o ammo)                                                                                                             | 2,300 lbs/1,042 kg                                                                   |
| <b>Weapon station</b><br>Train Elevation                                                                                                | ± 15° to ± 165° adjustable to any value in range<br>-20° to +40°                     |
| <b>Electro-Optical Fire Control System</b> (relative to mount)<br>Train<br>Elevation                                                    | ± 165°<br>20° to +85°                                                                |
| Gun type                                                                                                                                | 25-mm M242 Bushmaster, 7.62-mm Chain Gun Mk52 Mod 0                                  |
| Ammunition feed                                                                                                                         | Dual feed for main gun, single feed for the 7.62-mm gun                              |
| Ammunition capacity                                                                                                                     | 168 ready rounds main gun, 750 rounds for 7.62-mm gun                                |
| Rate of fire                                                                                                                            | 5 rates from single to 180 rpm max for main gun<br>and up to 570 rpm for 7.62-mm gun |
| <b>Personnel requirements</b><br>Remote<br>Ammunition loading                                                                           | 1<br>2                                                                               |
| <b>Operability tests and scheduled maintenance</b><br>(average daily)<br>Ammunition reloading time<br>Availability (inherent/predicted) | 6 minutes<br>5 minutes<br>99.9%*                                                     |

\*Based on mission-critical MTBF of 1,441 hours and MTTR of 1.2 hours

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